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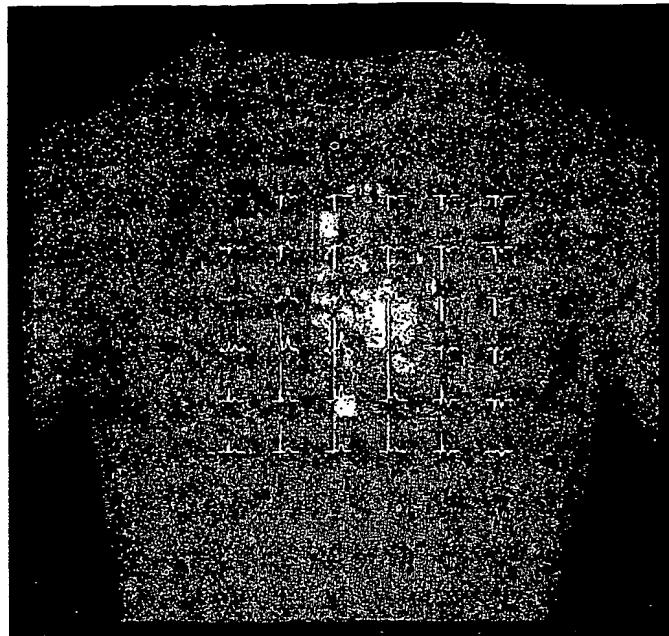


Figure 1

Method	%correct	#misses	time (s)
SVMLib	74	4+5	10
K-PLS	74	4+5	6
DK-PCA	71	7+3	5
PLS	63	2+11	3
<b>K-PLS</b>	<b>80</b>	<b>2+5</b>	6
<b>DK-PLS</b>	<b>80</b>	<b>2+5</b>	5
<b>SVMLib</b>	<b>80</b>	<b>2+5</b>	10
<b>LS-SVM</b>	<b>80</b>	<b>2+5</b>	<b>0.5</b>
SOM	63	3+10	960
DK-SOM	71	5+5	28
DK-SOM	77	3+5	28

Figure 2

Method	q2	Q2	RMSE
SVMLib	0.767	0.842	0.852
K-PLS	0.779	0.849	0.856
DK-PCA	0.783	0.812	0.87
PLS	0.841	0.142	1.146
K-PLS	0.591	0.694	0.773
DK-PLS	0.591	0.694	0.773
SVMLib	0.591	0.697	0.775
<b>LS-SVM</b>	<b>0.59</b>	<b>0.692</b>	<b>0.772</b>
SOM	0.866	1.304	1.06
DK-SOM	0.855	1.0113	0.934
DK-SOM	0.755	0.859	0.861

Figure 3

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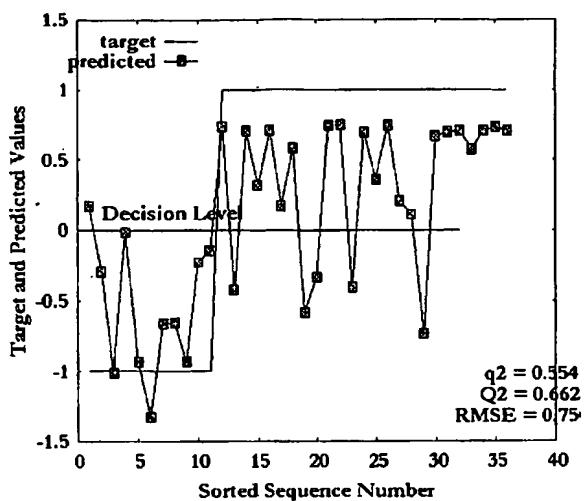


Figure 4

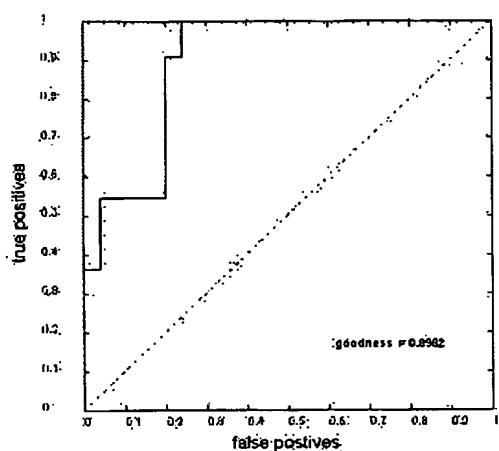


Figure 5

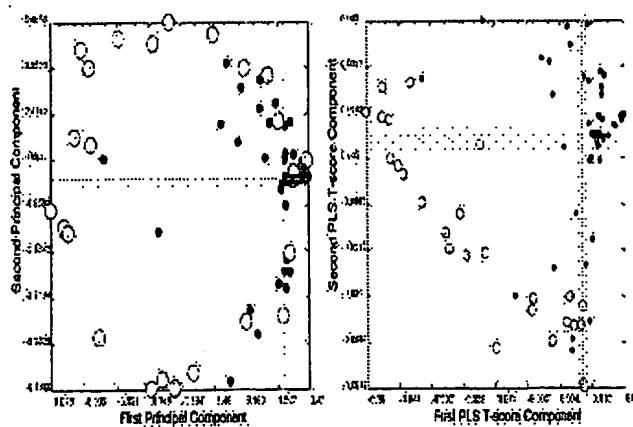


Figure 6

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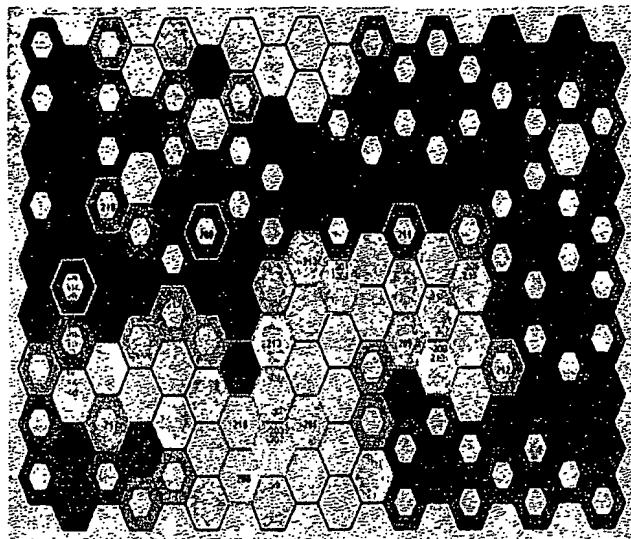


Figure 7

Method	Domain	RMSE	CC [%]
SVMLib	time	0.852	74
K-PLS	time	0.856	74
DK-PCA	D4-wavelet	0.87	71
PLS	D4-wavelet	1.146	63
K-PLS	D4-wavelet	0.773	80
<b>DK-PLS</b>	<b>D4-wavelet</b>	<b>0.75</b>	<b>83</b>
SVMLib	D4-wavelet	0.775	80
LS-SVM	D4-wavelet	0.772	80
SOM	D4-wavelet	1.06	63
DK-SOM	D4-wavelet	0.861	77

Figure 8

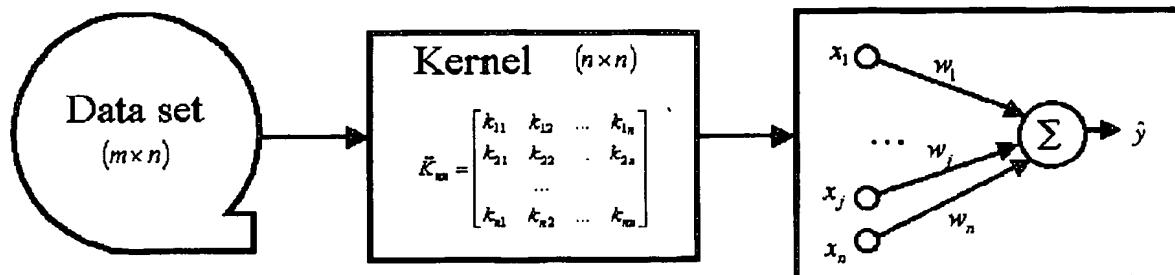


Figure 9

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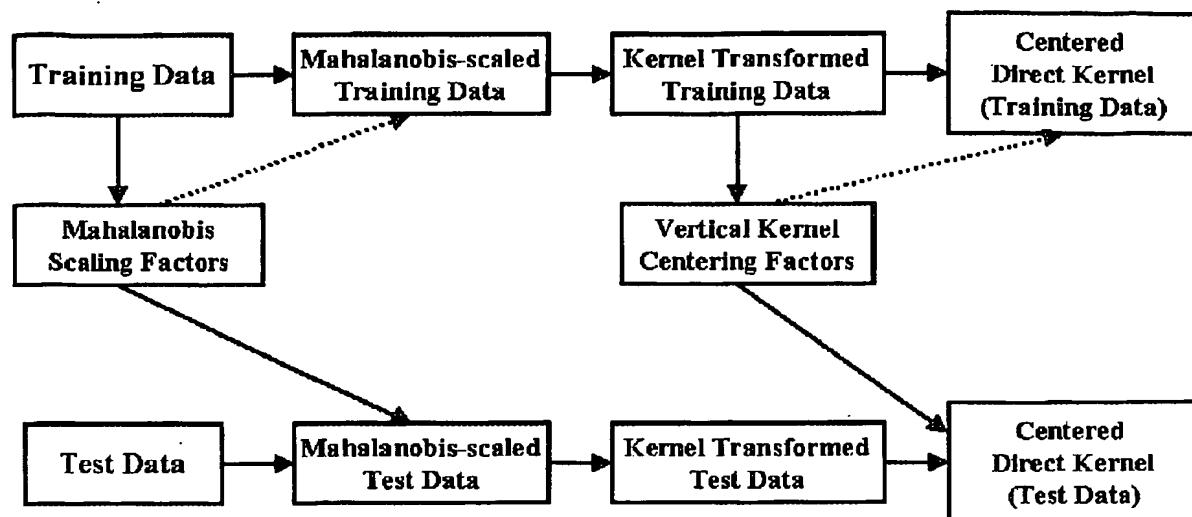


Figure 10

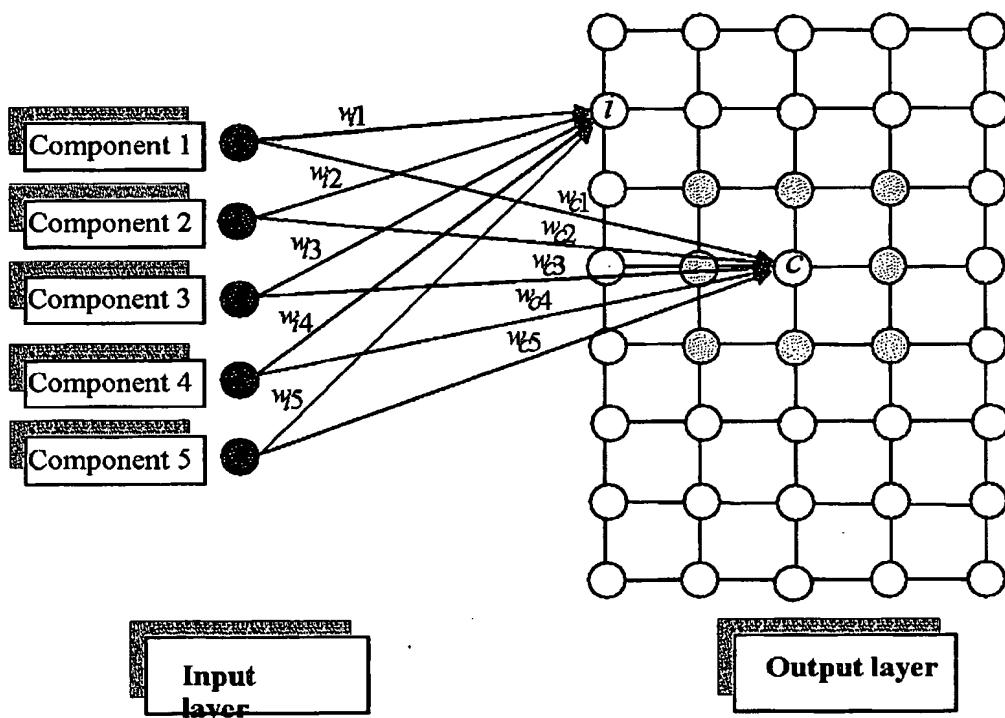


Figure 11

Linear methods	Non-linear kernel methods	Newly developed methods
PLS	SVMLib	DK-SOM
PCA	SOM	DK-PLS
	LS-SVM	DK-PCA
	K-PLS	

Figure 12